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ABSTRACT

An electrical connector that comprises an electrically insulating housing having a front end and a back end displaced along a longitudinal axis. An electrical contact receiving aperture is formed in the housing and is arrayed parallel to the longitudinal axis. The back end of the connector housing further includes a contact receiving entrance that has a given cross-sectional, one-way footprint and has a given length "L" along the longitudinal axis. An electrical contact is positioned in the contact-receiving aperture, and has the same cross-sectional, one-way footprint as the entrance. At least a portion of the longitudinal length of the contact, designated "L1" is sufficient to retain engagement with the contact receiving entrance until the contact enters the electrical contact-receiving aperture in the insulating housing. The one-way footprint assures correct alignment of the contact with the housing aperture and allows for a much smaller contact with lesser spacing between contacts, thus allowing for a greater contact density and a miniaturization of the connector.